

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550120010-6"

YELISEYEV, Vladimir Fedorovich; ZHILOV, Ivan Ivanovich; KATAYEV,
Afanasiy Filippovich; PELEVINA, Irina Osipovna; SHUGAN, Viktor
Ustinovich, kand. ekon. nauk, dots., red.; BILENKO, L.S., red.

— izd-va; SOTNIKOVA, N.F., tekhn. red.

[The economics and planning of Soviet cooperative trade] Ekonomika
i planirovanie sovetskoi kooperativnoi torgovli. [By]V.F.Eliseev
i dr. Moskva, Izd-vo TSentrosoluza, 1962. 354 p. (MIRA 16:3)

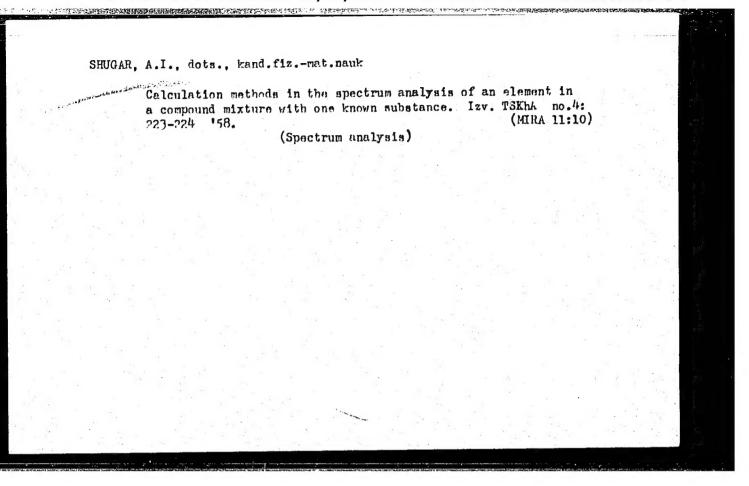
(Cooperative societies)

USSR/Prisms
Spectral lines

"A Biprism for Visual Photometry of Spectral Lines,"
A. I. Shugar, 3 pp

"Zhur Eksp i Teor Fiz" Vol XVII, No 5

Brief description with diagrams and a photograph of the apparatus



SHUGAR, A.I. dotsent, kand.fiziko-matemat.nauk; ROMANOVA, L.V.;
SHUGAR, Yu.A.

Spectrum analysis of powders in condensed spark based on the method of two standard additions. Izv.TSKhA no.3:201-202

[150] (Spectrum analysis)

SHUGAR, A.I., kand.fiziko-matematicheskikh nauk, dotsent; SHUGAR, Yu.A.,
starshiy nauchnyy sotrudnik

Photocalorimetric analysis of elements by using the method of calculating by the coefficient and adding interfering ions.

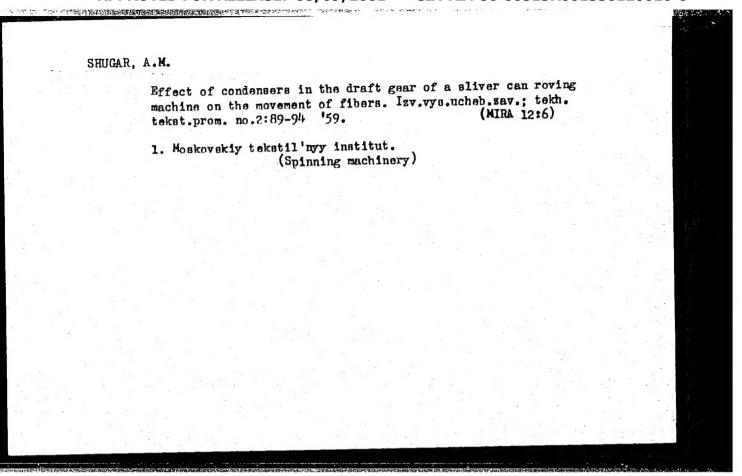
Izv. TSKhA no.3:206-211 '60. (MIRA 14:4)

(Calorimetry)

SHUGAR, A. M.: Master Tech Sci (diss) -- "Investigation of the effect of packing on the extraction process in the RTP-192 bushing-drive coarse-linen machine".

Moscow, 1959. 12 pp (Min Higher Educ USSR, Moscow Textile Inst), 150 copies

(KL, No 18, 1959, 126)



BOIDIZHAR, Gnagli [Boldizear, G.]; SHUGAR, A.M. [Sugar, A.]

Problems concerning the shape and dimension of modern rings and travelers.

Tekst.prom. 23 no.4:37-43 Ap '63.

1. Issledovatel'skiy tekstil'noy promyshlennosti Vengerskoy
Narodnoy Respubliki.

(Hungary—Spinning machinery)

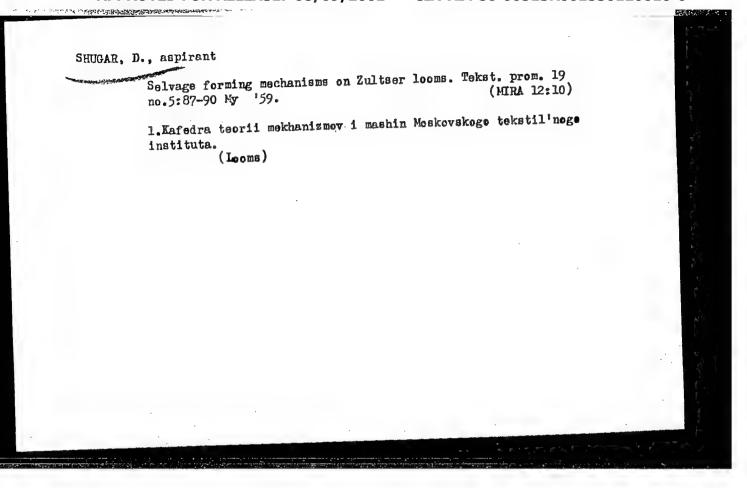
SHUGAR, D., aspirant.

Characteristics of the Neumann loom, Tekst. prom. 18 no.8:64-65
Ag '58.

(MTRA 11:10)

1. Kafedry teorii mekhanismov i mashin Moskovskogo tekstil'nogo instituta.

(Germany, East--Looms)



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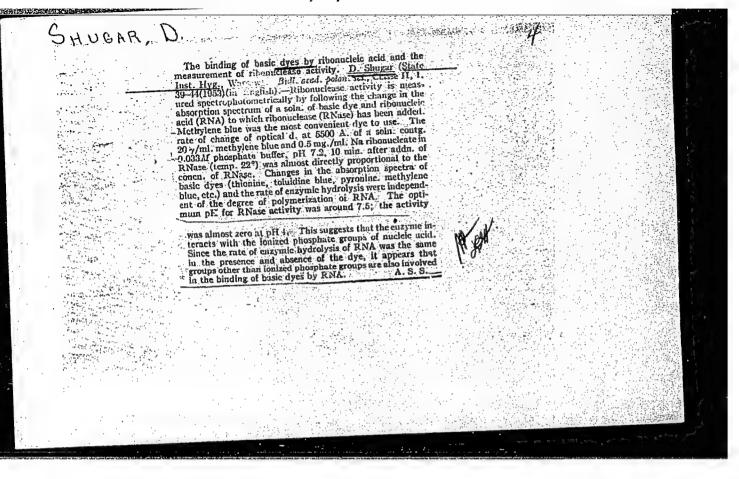
SHUGAR, Derd'. Cand Tech Sci -- (diss) "Effect of the slay mechanism upon the umbalance of looms." Mos, 1959. 18 pp (Min of Higher and Secondary Specialized Education RSFSR. Mos Textile Inst), 150 copies (KL, 49-59, 141)

W. C.

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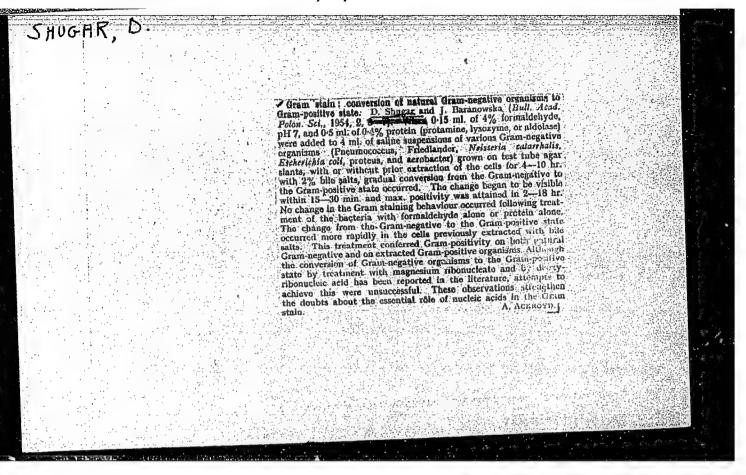


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SHUGAE, D.

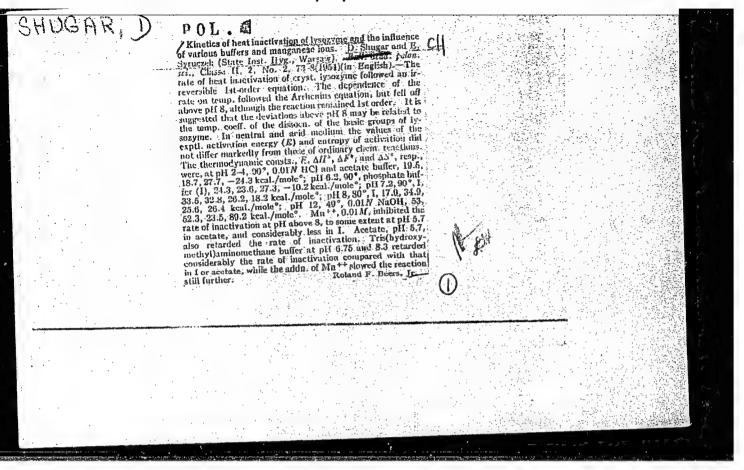
"The Riboflavin Photo-sensitzed Oxidation of some 3-substituted Indole Derivatives", P. 3, (ACTA BIGORIMICA POLICIA, Vol. 1 No. 1/2, 1954, Wardzauz, Poland)

So: Houthly List of Eart European Accessions, (EEAL), LC, Vol. 4, No. 5 Nay 1959, Uncl.



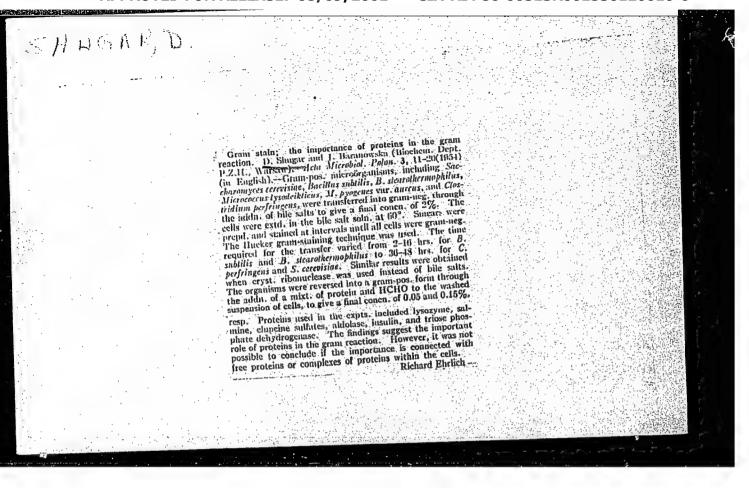
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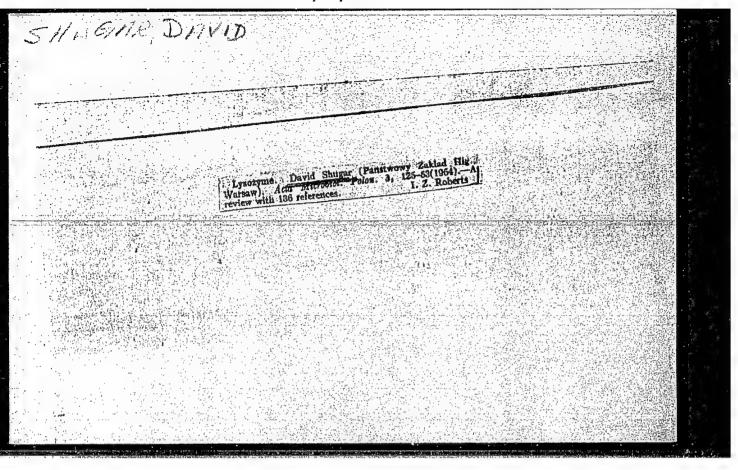
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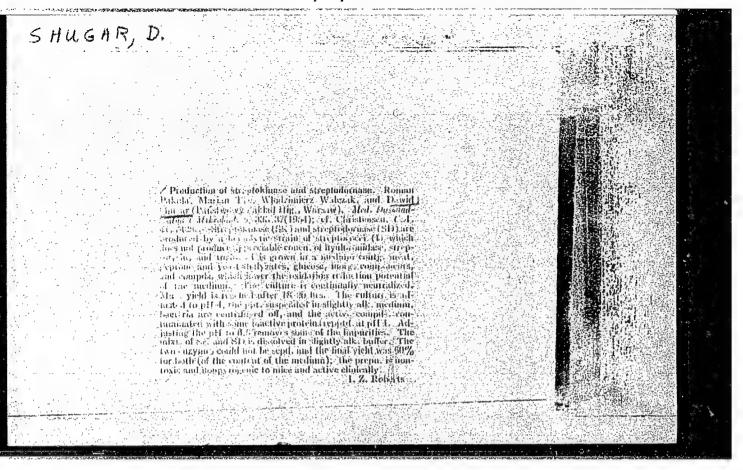
SHUGAR, D.

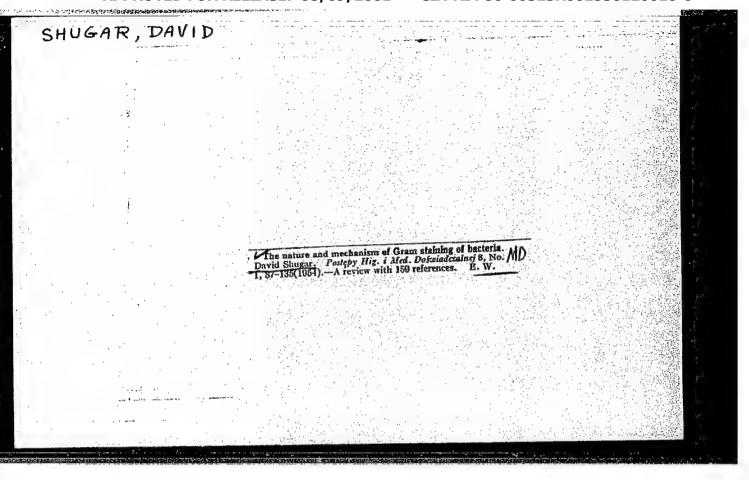
Kinetics of inactivation of ribonuclease with heat. Acta physiol. polon. 5 no.4:634-635 1954.

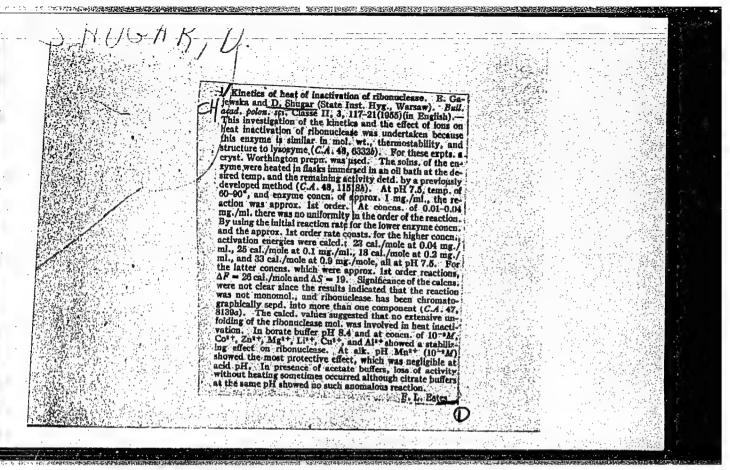
1. D Dzialu Biochemii Panstwowego Zakladu Higieny w Warszawie. Kierownik: prof. dr J.Heller.

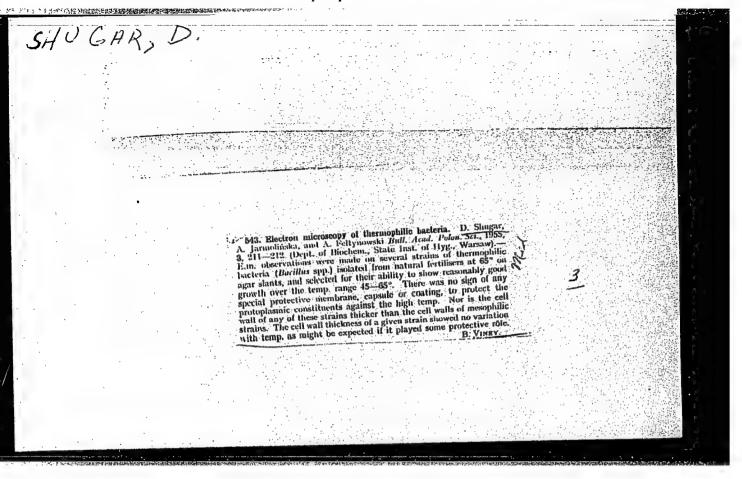
(MCLEASES, ribonuclease, inactivation with heat)

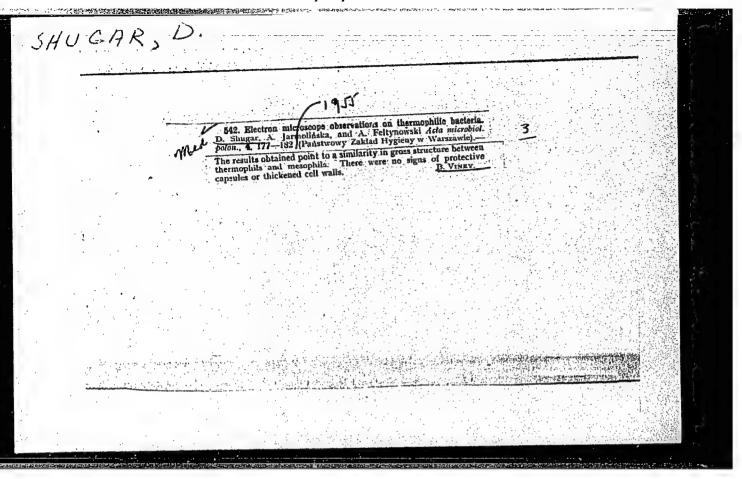
(HEAT, effects, on ribonuclease, incactivation)



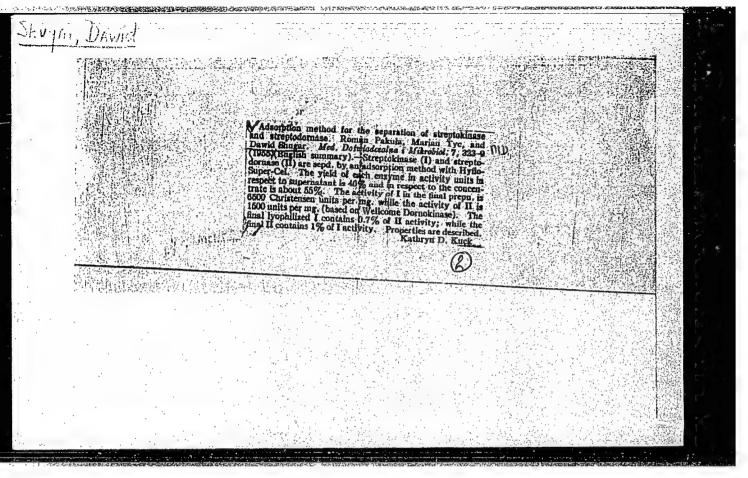


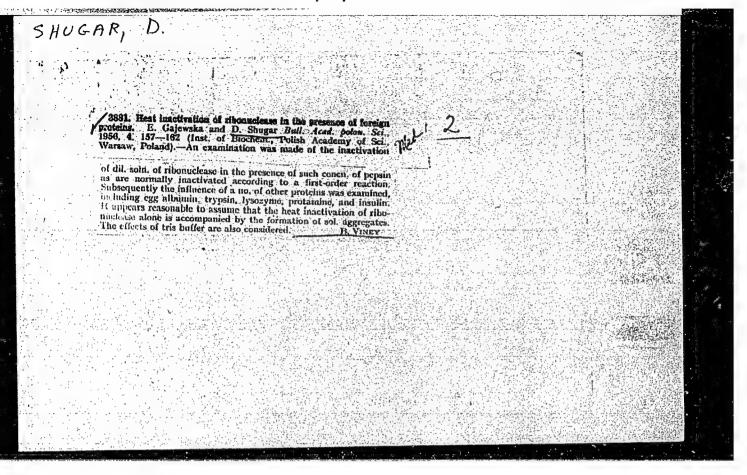


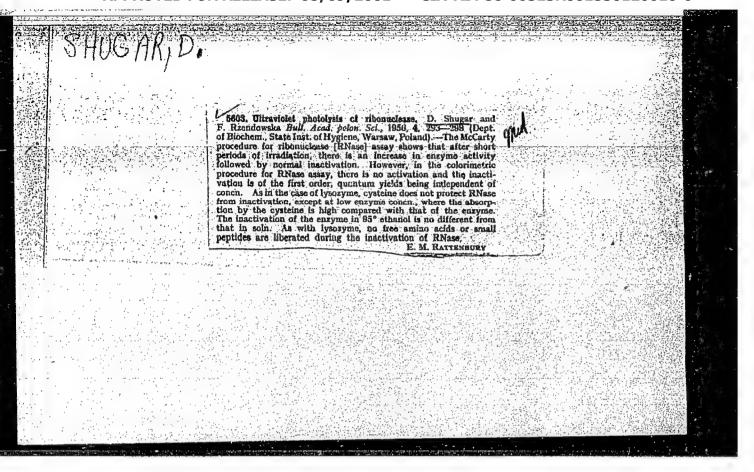




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KOCHANSKA, Z.; SHUGAR, D.

Deamination of purines during acid hydrolysis of nucleic acids.
Acta biochim. polon. 3 no.4:591-594 1956.

1. Z Pracowni Biofizyki Zakladu Biochemii PAN w Warszawie.
(NUCLEIC ACIDS,
hydrolysis, deamination of purines in (Pol))
(FURINES,
deamination in hydrolysis of nucleic acids (Pol))

SHUGAR, D.; RZENDOWSKA, F.

Studies on photochemistry of ribonuclease. Acta biochim. polon.
3 no.4:595-605 1956.

1. Z Zakladu Biochemii P.Z.H. w Warssawie.
(RIBONUCLEASE, eff. of ultraviolet rays (Pol))
(ULTRAVIOLET RAYS, effects, on ribonuclease (Pol))

SZEMPLINSKA, E.; SZENBERG, A.; SHUGAR, D.

Use of commercial preparations of streptococcal desoxyribonuclease for histochemical purposes. Acta biochim. polon. 3 no.4:607-612 1956.

1. Z Zakladu Biochemii PZH i Zakladu Biochemii PAN w Warszawie. (STREPTODORNASE AND STREPTOKINASE, commercial streptoc. streptodornase (Pol))

POLAND / Microbiology. General Microbiology. Investigatory Methods and Techniques.

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Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 19393

Author

: Shugar, D.; Baranowska, J. : Polish Academy of Sciences

Inst Title Application of 1131 to Quantitative Studies on

Gram Staining

Orig Pub

: Bull, Acad. polon. sci., 1957, cl. 2, 5, No 5-6,

165-168

Abstract : No abstract given

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BARKNOWSKA, J.: SHUGAR D.

国际代码的政策的证明的证明的证明的证明的证明的

The role of proteins in, and the question of localization of the Gram reaction. Acta microb. polon. 6 no.2: 107-114 1957.

1. From the Department of Biochemisty, State Institute of Hygiene, . Warszawa Revived 3 November 1956.

(BACTERIA, metab.

proteins, eff. on Gram staining reaction)

(PROTEINS, metab.

bact., eff. on Gram staining reaction)

(STAINS & STAINING

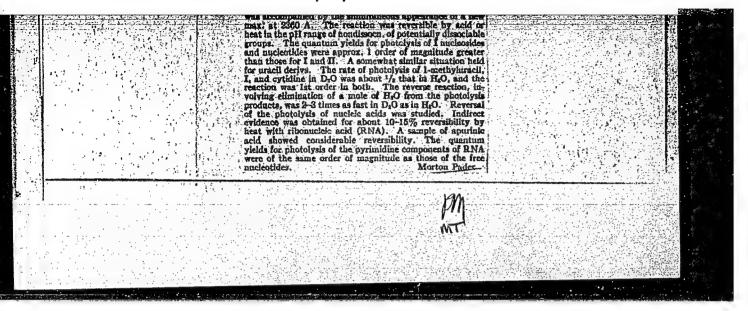
Gram reaction, eff. of protein metab. of bact.

SHUGAR, D.; JARMOLIMSKA, A.

Thermophilous bacteria. p. 10,

(PRZEMYSL SPOZYVCZY. Vol. 11, No. 1, Jan. 1957, Warszawa, Poland.)

SO: Monthly List of East European Accessions (EEAL) Lc. vol. 6, No. 10, October 1957. Uncl.



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CIA-RDP86-00513R001550120010-6

Shugar, D., and others

The application of labeled compounds in quantitative staining reactions in biology, p. 513.

NUKLEONIKA. (Polska Akademia Nauk. Komitet do Spraw Pokojowego Wykorzystania Energii Jadrowej) Warszawa. Vol 3, no 5, 1958.

Monthly List of European Accessions (EEAI) LC, Vol 8, no. 7, July 1959.

Uncl.

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SHUGAR, D.; WIERZCHOWSKI, K.L.

Photochemistry of mucleic acids and of their components. Postepy biochem.
4 no.2:187-197 1958.
(HUCLEIC ACIDS.
photochem. (Pol))

SHUGAR, D.; WIERZCHOWSKI, L.

Photochemistry of nucleic acids, nucleic acid derivatives and related compounds. Postery blochem. 4 no.2:243-296 Suppl. 1958.

(NUCLEIC ACIDS

nhotochem., review)

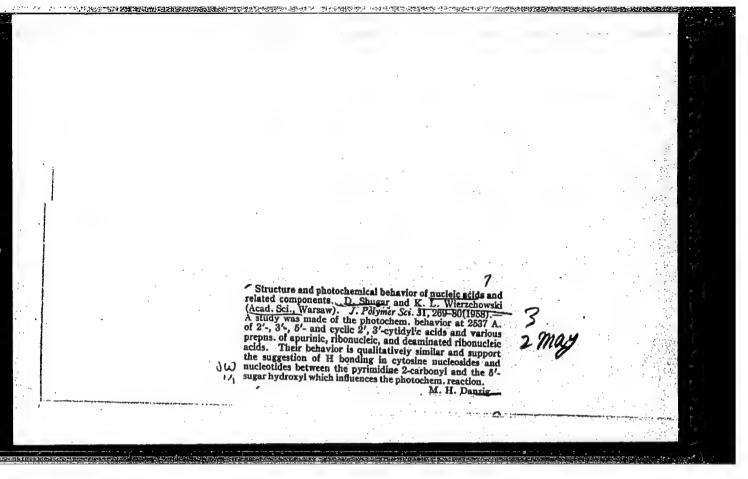
(NUCLEOSIDES AND NUCLEOTIDES,
photochem., review)

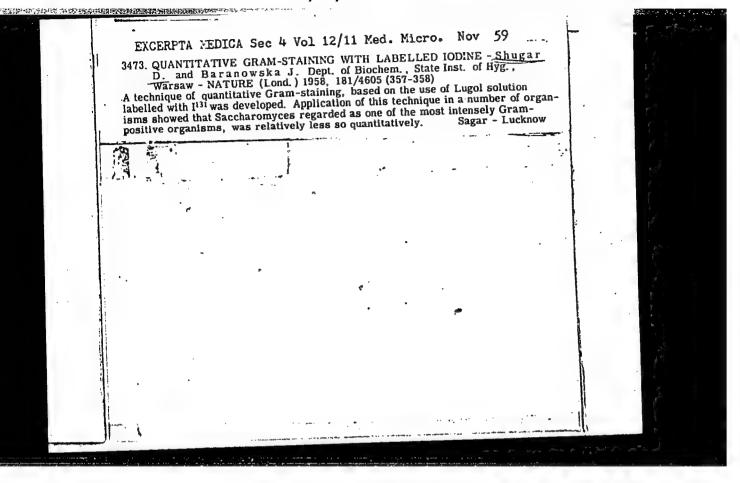
SHUGAR, D.; SIERAKOWSKA, H.; SZENBERG, A.

Quantitative staining with radioactive indicators: - alkaline phosphatase. Acta biochim. polon. 5 no.1:27-46 1958.

1. Institute of Biochemistry and Biophysics, Polish Academy of Sciences. Warsaw.

(PHOSPHATASES, determination quantitative determ. with radioactive indicators)





TRAMER, Zofia; SHUMAR, D.

Studies on phenolic hydroxyl binding in proteins. Acta biochim. polon. 6 no.2:235-251 '59.

1. Instytut Biochemii i Biofizyki PAN, Warszawa.

(PROTEINS - chemistry)

WIERZCHOWSKI, K.L.; SHUGAR, D.

Studies of reversible photolysis in oligo-and poly-uridylic acids. Acta biochim.polon. 6 no.3: 313-334 159.

1. Instytut Biochemii i Biofizyki Polskiej Akademii Nauk, Warssawa. (NUCLEOSIDES AND NUCLEOTIDES chem.)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001550120010-6

SHUCAR, D.; ADANIEC, A.; SZTUMPF, Ewa

Role of peptide bond absorption in protein photochemistry.
Acta biochim.polon. 6 no.4:417-423 '59.

1. Department of Biochemistry, State Institute of Hygiene,
Warsaw.

(PROTEINS chem)

(PROTEINS chem)

Two procedures for following the kinetics of degradation of apurinic acid. Acta biochim.polon. 6 no.4:425-430 159.

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1. Department of Biochemistry, State Institute of Hygiene, Warsaw.

(DESOXYRIBONUCLEIC ACID rel cpds)

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Quan of 1 no.8	titative staining 4C-labeled crystal :293-297 '59.	A10Ter Stor mean	(EEAI 9:6)	
1. I Scie	nstitute of Bioche nces. Presented by (Stains and s (Crystal viol	mistry and Bioph J.Heller. taining (Microso et) (Methyl gre	ору))	ademy of	
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CIA-RDP86-00513R001550120010-6

WIERZCHOWSKI, K.L.; SHUGAR, D.

AND THE PERSON OF THE PERSON O

Further studies on the photochemistry of pyrimidines, with special reference to 5-and 6-substituted derivatives in relation to photo-reactivation in the T-even bacteriophages. Acta biochim.polon. 7 no.1:63-84 160.

1. Instytut Biochemii i Biofizyki, Polska Akademia Nauk, Warszawa (PYRIMIDINES chem.)
(BACTERIOPHAGE)
(LIGHT)

JANION, Celina; SHUGAR, D.

Absorption spectra, structure and behaviour towards some enzymes of dihydropyrimidines and dihydro-oligonucleotides. Acta biochim. polon. 7 no.2/3:309-328 '60.

1. Institute of Biochemistry and Biophysics, Folish Academy of Sciences, Warsaw.

(PYRINDINES chem)

(NUCLEOSIDES AND NUCLEOTIDES)

(ULTRAVIOLET RAYS)

WIERZCHOWSKI, K.L.; SHUGAR, D.

Photochemistry of model oligo- and polymuclectides. II. Homopolymers of adenylic, guanylic and cytidylic acids and several heteropolymers. Acta biochim.polon. 7 no.2/3:377-399 '60.

1. Institute of Biochemistry and Biophysics, Polish Academy of Sciences, Warsaw.
(NUCLEIG ACIDS chem)
(NUCLEIG ACIDS chem)
(NUCLEIG ACIDS Chem)
(ULTRAVIOLET RAYS)

SIERAKOWSKA, Halina; SHUGAR, D.

Investigations on histochemical localization of nuclease enzymes.

Acta bicchim.polon. 7 no.4:475-489 *60.

1. Institute of Biochemistry & Biophysics, Polish Academy of Sciences, Narsaw.

(NUCLEASES chem)

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N-methylation of uridylic scid and preparation of oligonucleotides of 3-methyluridylic acid. Acta biochim.polon. 7 no.4:491-504 '60.

1. Institute of Biochemistry & Biophysics, Academy of Sciences, Warsaw.

(NUCLEOSIDES AND NUCLEOTIDES chem)

BARANOWSKA, Joanna; SHUGAR, D.

Photochemistry of model oligo- and poly-nucleotides. III. Cross-linking and staining properties of ultraviolet irradiated films of nucleic acids and eligonucleotides. Acta biochim.polon. 7 no.4:

505-520.160.

1. Department of Biochemistry, State Institute of Hygiene, Warsaw.
(NUCLEOSINES AND NUCLEOTIDES chem)
(ULTRAVIOLET RATS)
(NUCLEIC ACIDS chem)

TRAMER, Zofia; SHUGAR, David

Construction of a small "open" cobalt source for radiobiological investigations. Nukleonika 6 no.10:667-674 '61.

1. Instytut Biochemii i Biofizyki, Polska Akademia Nauk, Warszawa, i Zaklad Biochemii, Panstwowy Zaklad Higieny, Warszawa.

(Radiobiology)

WIERZCHOWSKI, K.L., SHUGAR, D.

Photochemistry of cytosine nucleosides and nucleotides. II. Acta biochim. polon. 8 no.2:219-234 '61.

1. Institute of Biochemistry and biophysics, Polish Academy of Sciences, Warsaw

(NUCLEOSIDES AND NUCLEOTIDES chem)

SZER, W; SHUGAR, D.

The preparation and properties of high molecular weight polymers of N-methyluridylic acid. Acta biochim. polon. 8 no.2:235-249 '61.

1. Institute of Biochemistry & Biophysics, Polish Academy of Sciences, Warsaw (NUCLEOSIDES AND NUCLEOTIDES chem)

JANION, Celina; SHUGAR, D.

Thymidine phosphorylase and other enzymes in regenerating rat liver. Acta biochim. polon. 8 no.3:327-344 !61.

1. Institute of Biochemistry & Biophysics, Polish Academy of Sciences, Warszawa

(PHOSPHORYLASES metab).
(LIVER metab)

JANION, Celina; SHUGAR, D.

Thymidine phosphorylase and other enzymes in regenerating rat liver. Acta biochim 8 no.3:337-344 61.

1. Institute of Biochemistry & Biophysics, Polish Academy of Sciences, Warsaw.

(ENZYMES)

SZER, W.; SHUGAR, D.

Synthesis and physico-chemical and enzymatic properties of 5-bromo derivatives of uridine phosphates and their polymers. Acta biochim 8 no.3:363-375 161.

1. Institute of Biochemistry & Biophysics, Polish Academy of Sciences, Warsaw.

(URIDINE PHOSPHATES)

PAKULA, R.; WALCZAK, W.; SHUGAR, D.

Inactivation of the streptomycin resistance markers of three species of bacteria by ionizing radiation. Acta biochim. polon. 8 no.4:413-

A STATE OF THE PROPERTY OF THE

425 161.

1. Departments of Microbiology and Biochemistry, State Institute of Hygiene, Warszawa (STREPTOMYCIN) (ULTRAVIOLET RAYS)

(STREPTOMYCIN) (ULTRAVIOLET RAYS)
(DESOXYRIBONUCLEIC ACID metab) (RADIATION EFFECTS)
(BACTERIA radiation eff)

SIERA	Gross histochemical localization of tissue nuclease enzymes. Acta biochim. polon. 8 no.4:427-436 61.				
	1. Institute of and Department	Biochemistry & Biophysic of Biochemistry, State In (NUCLEASES chem)	s, Polish Academy of Sc stitute of Hygiene, War	iences, szawa.	
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Radiation chemistry of nucleic acids and their derivatives. I. Some pyrimidines, dihydropyrimidines and hydrated pyrimidines. Acta biochim. polon. & no.4:455-471 61.	11
1. Institute of Biochemistry and Biophysics, Polish Academy of Sciences, Warszawa. (NUCLEIC ACIDS chem) (RADIATION EFFECTS) (PYRIMIDINES chem)	

of some pyr	Chemical and enzymatic properties of methyl esters of 5'-phosphates of some pyrimidine nucleosides. Biokhimiia 26 no.5:840-845 S-0 '61. (MIRA 14:12) 1. Institute of Biochemistry and Biophysics, Academy of Sciences,				
1. Institut	e of Biochemistry a	nd Biophysics, Acade	•		
Warsaw.	(NUCLEOS IDES)	(PHOSPHATES)			
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SZER, W.; SHUGAR, D.

A note on the stability of pyrimidine nucleoside cyclic phosphate methyl esters and the mode of action of ribonuclease. Acta biochim. polon. 9 no.2:131-135 '62.

1. Institute of Biochemistry and Biophysics, Polish Academy of Sciences, Warszawa.
(NUCLEOSIDES AND NUCLEOTIDES chem) (RIBONUCLEASE chem)

PAKULA, R.; WALCZAK, W.; SHUGAR, D.

Oxygen and dose-rate effects on survival curves of γ' -irradiated transforming DNA in the presence of protective substances. Acta biochim. polon. 9 no.3:227-237 *62.

1. State Institute of Hygiene, Warszawa.

(DESOXYRIBONUCLEIC ACID - radiation effects)

(SULFHYDRYL COMPOUNDS - pharmacology) (THIOUREA - pharmacology)

(CYSTEINE - pharmacology)

SZEMPLINSKA, Halina; SIERAKOWSKA, Halina; SHUGAR, D.

Histochemical localization of hyaluronidase and amylase by the film-substrate technique. Acta biochim. polon. 9 no.3:239-244 '62.

1. Department of Biochemistry, State Institute of Hygiene; and Institute of Biochemistry and Biophysics, Polish Academy of Sciences, Warszawa.

(HYALURONIDASE - chemistry) (AMYLASES - chemistry)

(HISTOLOGICAL TECHNIQUES)

JANION, Celina; SHUGAR, D.

Influence of %-irradiation on liver regeneration in normal and starved rats. Acta blochim. polon. 9 no.3:271-280 162.

1. Institute of Biochemistry and Biophysics, Polish Academy of Sciences, Warszawa.

(RADIATION EFFECTS - experimental) (REGENERATION - experimental) (STARVATION - experimental) (LIVER - radiation effects)

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	Deuteron and paradiation of dried preparations of lysozyme and ribonuclease. Acta biochim. polon. 9 no.3:281-293 !62.	
	1. Institute of Biochemistry and Biophysics, Polish Academy of Sciences,	A
	Warzawa. (LYSOZYME - radiation effects) (RIBONUCLEASE - radiation effects) (RADIATION EFFECTS - experimental)	
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ZMUDZKA, Barbara; SZER, W.; SHUGAR, D.

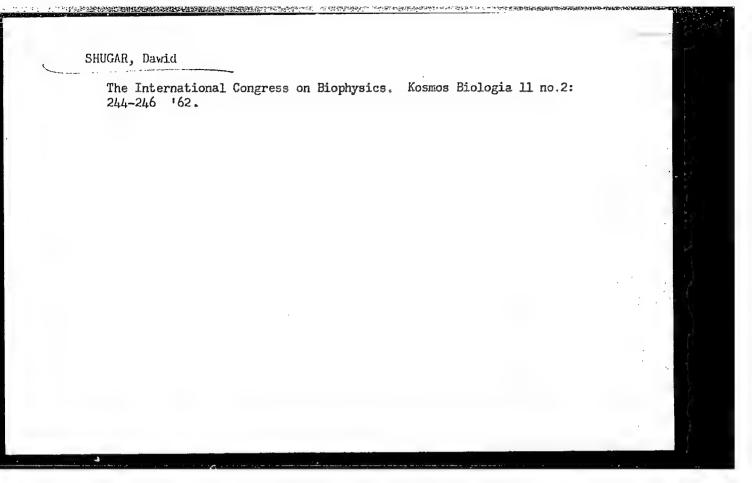
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Preparation and chemical and enzymic properties of phosphate esters of $1-(\beta-D-glucopyranosyl)$ uracil and -thymine. Acta biochim. pol. 9 no.4:321-341 '62.

1. Department of Biochemistry, State Institute of Hygiene, and Institute of Biochemistry and Biophysics, Polish Academy of Sciences, Warszawa.

(URACIL NUCLEOTIDES) (NUCLEOTIDES) (VENOMS)

(RIBONUCLEASE) (PHOSPHOTRANSFER



BARSZCZ, Daniela; TRAMER, Zofia; SHUGAR, D.

2007年,1907年

Bromination of thymine and photochemistry of 5-bromo-6-hydroxyhydrothymine analogues. Acta biochim. pol. 10 no.1:9 163.

1. Institute of Biochemistry and Biophysics, Polish Academy of Sciences, Warszawa.

(NO SUBJECT HEADINGS)

BERENS, K.; SHUGAR, D.

Ultraviolet absorption spectra and structure of halogenated uracils and their glycosides. Acta biochim. pol. 10 no.1:25 '63.

1. Institute of Biochemistry and Biophysics, Polish Aqademy of Sciences, Warszawa.

(NO SUBJECT HEADINGS)

SZER, W.; SWIERKOWSKI, M.; SHUGAR, D.

Secondary structure of poly-uridylic and poly-ribothymidylic acids, their N-methylated analogues, and their 1:1 complexes with poly-A. Acta biochim. pol. 10 no.1:87 '63.

1. Institute of Biochemistry and Biophysics, Polish Academy of Sciences; and Dept. of Biochemistry, State Institute of Hygiene, Warszawa.

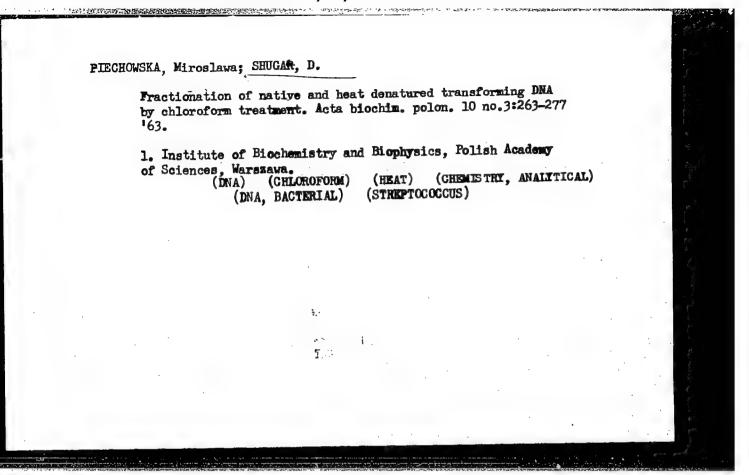
(NO SUBJECT HEADINGS)

SZER, W.; SHUGAR, D.

Preparation of poly-5-fluorouridylic acid and the properties of halogenated poly-uridylic acids and their complexes with polyadenylic acid. Acta biochim. pol. 10 no.2:219-231 '63.

1. Institute of Biochemistry and Biophysics, Polish Academy of Sciences, Warszawa.

(URACIL NUCLEOTIDES) (ADENINE NUCLEOTIDES) (CHEMISTRY)



SIERAKOWSKA, Halina; SZEMPLINSKA, Halina; SHUGAR, D.

Intracellular localization of phosphodiesterase by a cytochemical method. Acta biochim. pol. 10 no.4:399-411 *63.

1. Institute of Biochemistry and Biophysics, Polish Academy of Sciences, and Dept. of Biochemistry, State Institute of Hygiene, Warszawa.

(PHOSPHATASES) (HISTOCHEMISTRY) (KIDNEY)

(PANCREAS) (DUODENUM) (THIROID GLAND)

(LIVER ENZYMOLOGY) (TRACHEA) (TONGUE)

(PAROTID GLAND) (SPLEEN) (SUBLINGUAL GLAND)

(SUEMAXILLARY GLAND)

BARSZCZ, Daniela; SHUGAR, D.

Influence of temperature on the stability of the acid and alkaline forms of polyriboadenylic acid. Acta biochim. Pol. 11 no.4:431-496 '64.

1. Institute of Biochemistry and Biophysics, Polish Academy of Sciences, Marszawa.

ZNUDZKA, Barbara; SHUGAR, D.

Preparation and chemical and enzymic properties of cyclic phosphates of D-gluc pyranose and synthesis of derivatives of N-(D-glucopyranosyl) pyridine. Acta biochim. Pol. 11 no.4:509-525 '64.

1. Department of Biochemistry, 'tota Institute of Hygiene and Institute of Biochemistry and Biophysics, Polish Academy of Sciences, Warszawa.

SIERAKOWSKA, Halina; EDSTROM, J.-E.; SHUGAR, D.

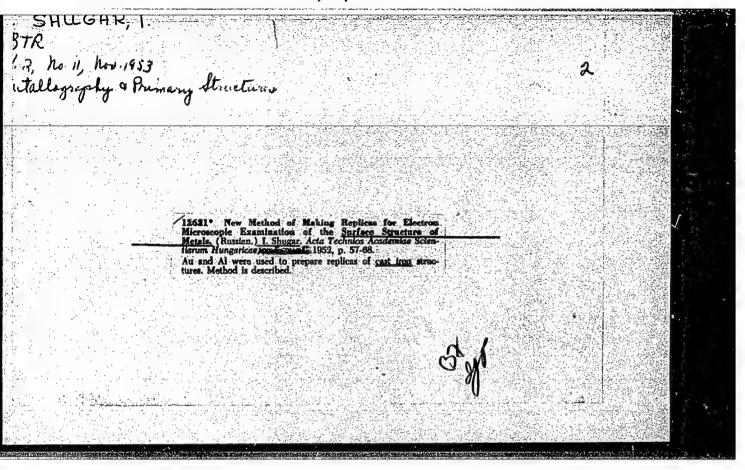
Intracellular localization of nuclease enzymes by a microdissection-microelectrophoretic technique. Acta biochim. Pol. 11 no.4:497-507 '64.

1. Institute of Biochesmitry and Biophysics, Polis Academy of Sciences, Warszawa, and Department of Histology, University of Göteborg, Sweden.

JUNET, Calina; SINGEL, D.

Integenicity of hydroxylamine: reaction with enalogues of cytosine, 5(6)-substituted cytosines and some 2-keto-4-ethoxypyrimidines. Acta biochim. Pol. 12 no.4:337-355 165.

1. Department of Biophysics, Institute of Biochemistry and Biophysics, Polish Academy of Sciences; and Department of Biochemistry, State Institute of Hygiene, Warszawa.



DEN'YANIKOV, I.G.; SHUGAR, I.V.; GUSEV, V.N.

Quantitative determination of elements by means of a short-wave X-ray spectrometer with a monitor. Zav.lab. 27 no.9:1104-1106 (MIRA 14:9)

1. Institut metallurgii i obogashcheniya Akademii nauk KazSSR. (Spectrometry)

SHUGAR, I.V.

AID Nr. 977-6 27 May

ENERGY DISTRIBUTION OF SCATTERED NEUTRONS IN WATER (USSR)

Dulin, V. A., Yu. A. Kazanskiy, and I. V. Shugar. Atomnaya energiya, v. 14, no. 4, Apr 1963, 404-405. S/089/63/014/004/011/019

The neutron spectra in water from an ~15 Mev neutron source have been measured at distances of 20 to 90 cm from the source, which was an $H^3(H^2, n)He^4$ reaction with deuteron energy of 400 Kev. A single-crystal fast-neutron scintillation spectrometer with Y-ray discrimination was used as a detector. The results obtained are presented in the form of histograms which can be used for determining the relaxation length for a group of neutrons with energy of 14 to 16 Mev. At distances of 30 to 60 and 60 to 90 cm, the relaxation length was found to be 15.0 \pm 0.8 and 14.7 \pm 0.9 cm, respectively, which is in good agreement with the results obtained previously with a Cu⁶³ (n, 2n)Cu⁶² indicator by B. I. Sinitsyn, [AS]

Card 1/1

DULIN, V.A.; KAZANSKIY, Yu.A.; SHUGAR, I.V.

Energy distribution of scattered neutrons in water. Atom. energ.
14 no.4:404-405 Ap '63.

(Neutrons—Spectra)

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L 10288-63 FWT(m)/EPF(n)-2/BDS-AFFTC/ASD/AFWL/SSD-Pu-L

ACCESSION NR: AP3001181

5/0089/63/014/005/0488/0490

23

AUTHOR: Dulin, V. A.; Kazanskiy, Yu. A.; Shugar, I. V.

60

TITLE: Angular energy distribution of neutrons at the boundary of two

media.

SOURCE: Atomnaya energiya, v. 14, no. 5, 1963, 488-490

TOPIC TAGS: neutron scattering, neutron-energy distribution

ABSTRACT: Measurements were made of the spectra of scattered neutrons emerging at various angles at a boundary of water and a plane graphite layer. A fast neutron source with a mean energy of 3.9 Mev was placed at a 20-cm distance from the boundary. An H sup 2 (H sup 2, n)He sup 3 reaction with a deuteron energy of 900 Kev served as the neutron source. The neutron emission at the required angle was effected by means of a conical collimator with an angular resolution of about 5°. The neutrons were recorded with a single-crystal Gamma-discriminated scintillation spectrometer. The pulse amplitude distribution was recorded by means of an AI-100 analyzer. For each scattering angle the amplitude distribution was converted to the

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ACCESSION NR: AP3001181

neutron energy spectrum by means of a numerical matrix and by a differentiation method. The difference between the two results did not exceed 20% even in the energy range from 1.3 to 2.0 Mev. The neutron energy spectrum obtained at the graphite-water boundary is shown in the Fig. 1 of Enclosure. The results obtained by integration of angular energy distribution in the range from 0 to 180° are also plotted. The difference between the shape of measured and calculated spectra is due to the difference in geometry. "The authors are thankful to S. G. Tsypin for his valuable observations and to N. D. Proskurnina and Y. G. Dvukhsherstnov for their help in the work." Orig. art. has: 4 figures and 1 table.

ASSOCIATION: none

SUBMITTED: 14Aug62

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ENCL: 01

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OTHER: 001

Card 2/32

L 24216-65 EWT(m)/EWA(h) DM

ACCESSION NR: AP5001271

5/0089/64/017/006/0486/0492

AUTHOR: Dulin, V. A.; Dvukhsherstnov, V. G.; Kazanskiy, Yu. A.; Shugar, L. V.

TITLE: Angular and energy distribution of neutrons at the boundary of two media

SOURCE: Atomnaya energiya, v. 17, no. 6, 1964, 486-492

TOPIC TAGS: angular neutron distribution, neutron energy distribution, fast neutron, boundary problem

ABSTRACT: The authors measured the angular and energy distribution of fast neutrons of 0.4 to 3.4 Mev for water, graphite, aluminum, iron, nickel, and lead, at the boundary: medium-water, after the passage of a thickness equal from 1.5 to 4.6 of the mean free path. The neutron source was the reaction $D(D,n)He^3$. The measurements were made with a single crystal scintillation spectrometer for fast neutrons with a γ -rays discrimination. The comparison of experimental values for the angular distribution with the computation for a single scattering shows that multi scattering plays an important part. The comparison of experi-

Card 1/2

SHUGAR, Yu.A.

Effect of magnesium on the distribution of sugars in plants. Fiziol.rast. 3 no.1:32-35 Ja-F '56. (MLRA 9:5)

1. Nauchnyy institut po udobreniyam i insektofungisidam (NIUIF), Moskva.

(Plants, Effect of magnesium on) (Botany--Physiology)

SHUGAR, A.I., dotnent, kand fiziko-matemat.nauk; ROMANOVA, L.V.;
SHUGAR, Yu.A.

Spectrum analysis of powders in condensed spark based on the method of two standard additions. Izv. TSRhA no.3:201-202

159. (MIRA 12:10)

(Spectrum analysis)

SHUGAR, A.I., kand.fiziko-matematicheskikh nauk, dotsent; SHUGAR, Yu.A., starshiy nauchnyy sotrudnik

Photocalorimetric analysis of elements by using the method of calculating by the coefficient and adding interfering ions.

Izv. TSKhA no.3:206-211 '60. (MIRA 14:4)

MIROSHNIK, I.A.; SHUGAREV, V.V.

Two-channel pulse generator. Prib.i tekh.eksp. 7 no.1:108 Ja-F
162. (MIRA 15:3)

(Oscillators, Electron-tube)

SHUGAROV, A.I., prof.; SHKOL'NIKOV, A.B., red.; MAKHOVA, N.M., tekhn.

red.; PEVZNER, V.I., tekhn. red.

[Physics] Fizika. Moskva, Izd-vo sel'khoz. lit-ry, zhurnalov
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(Physics)

MAGNITSKIY, Konstantin Pavlovich, doktor sel'skokhozyayatvennykh nauk; SHUGAROV, Yu.A., starshiy nauchnyy sotrud.; MAIKOV,V.K., nauchnyy sotrud.; prinimali uchastiye: ZUYEVA,N.P., nauchnyy sotrud.; GOSUDAREVA,A.G., laborant; FEDORENKO,M.G., laborant; KAVUN,P.K., red.; BACHURINA,A.M., tekhn.red.; PROKOF'YEVA,L.N., tekhn.red.

[New methods of plant and soil analysis] Novye metody analiza rastenii i pochv. Moskva, Gos. izd-vo sel'khoz.lit-ry, 1959.
239 p. (MIRA 14:5)
(Soils--Analysis) (Botanical research)

SHUGAROVA, Z.I.

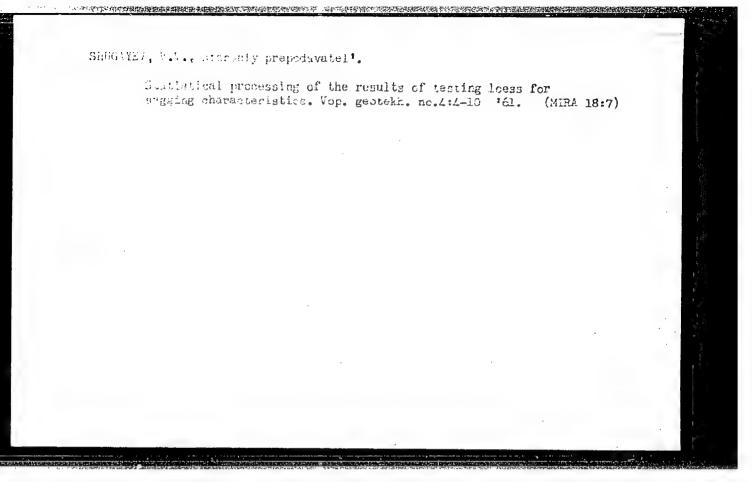
Case of severe fibrinous tracheobronchitis in a patient with otogenic sepsis and meningitis requiring emergency tracheotomy.

Vest. otorin. 22 no.6:94-95 *60. (MIRA 14:1)

CAVRILOV, F.I., kami. techn. mauk; SHUGAYENKO, V.V., inzh.

Gelecting an efficient shape of cutter nozzle for cutting steel.
Svar. proizv. 12:38-39 D '63. (MIRA 18:9)

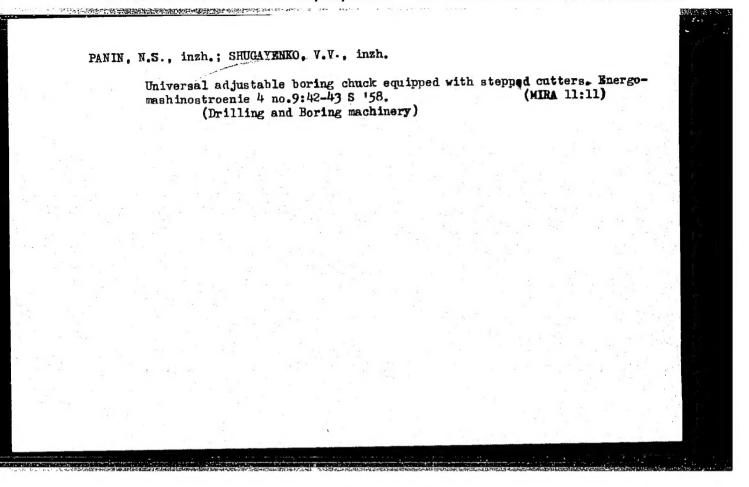
1. Saratovskiy politekhnimeskiy institut.



GAVRILOV, P.I., kand. tekhn.nauk; SHUGAYENKO, V.V., inzh.

Effect of cutting on the structure and properties of steel when using natural gas in the heating flame. Svar. proizv. no.10:28-29 0 '65. (MIRA 18:10)

1. Saratovskiy polltekhnicheskiy institut.



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(MIRA 17:10)

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SHUGAYEV, A

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